Translation

PATENT COOPERATION TRI



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FTE0307-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No. PCT/JP2003/013823	International filing date (day/n 29 October 2003 (29.							
International Patent Classification (IPC) or na H01J 29/28, 9/22, 31/12	ational classification and IPC							
Applicant	KABUSHIKI KAISHA	ГОЅНІВА						
This report is the international prelim Authority under Article 35 and transi	inary examination report, estab	olished by this International Preliminary Examining g to Article 36.						
2. This REPORT consists of a total of	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
a. (sent to the applicant and t	o the International Bureau) a t	otal of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relating to the following items:								
Box No. I Basis of the repo	ort							
Box No. II Priority	Box No. II Priority							
Box No. III Non-establishm	ent of opinion with regard to no	velty, inventive step and industrial applicability						
Box No. IV Lack of unity of	Box No. IV Lack of unity of invention							
Box No. V Reasoned statem citations and exp	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Γ 1	Box No. VII Certain defects in the international application							
Box No. VIII Certain observat	ions on the international applic	ation :						
Date of submission of the demand		completion of this report						
22 April 2004 (22.04.2004)		28 September 2004 (28.09.2004)						
Name and mailing address of the IPEA/JP		ed officer						
Facsimile No.		ne No.						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

rnational application No.

PCT/JP2003/013823

Box I	No. I	Basis of the report
1. Wi	ith regard	d to the language, this report is based on the international application in the language in which it was filed, unless
	This	report is based on translations from the original language into the following language, ch is language of a translation furnished for the purpose of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
	Ħ	
		international preliminary examination (under Rules 55.2 and/or 55.3)
Wit furn and	are not	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):
	The in	nternational application as originally filed/furnished
Ш	the de	scription:
	pages	, as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
	the cla	ims:
	pages	as originally filed/four-inter-
	pages*	, as originally filed/furnished , as amended (together with any statement) under Article 19
	pages*	received by this Authority on
	pages*	received by this Authority on
	the dra	wings:
	pages	
	pages*	, as originally filed/furnished, as originally filed/furnished
	pages*	received by this Authority on
П	a seque	
		nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
	T)	
Ш	The am	endments have resulted in the cancellation of:
	L] tl	ne description, pages
	tł	ne claims, Nos.
	th.	ne drawings, sheets/figs
	th	ne sequence listing (specify):
	ar	ny table(s) related to sequence listing (specify):
	-	to the state of th
	This rep	port has been established as if (some of) the amendments annexed to this report and listed below had not been ince they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box
		\ <i>\'</i> ''
	L th	e description, pages
	L th	e claims, Nos.
	the	e drawings, sheets/figs
	the	e sequence listing (specify):
	an	y table(s) related to sequence listing (specify):
	-	G (-F9)//-
		s, some or all of those sheets may be marked "superseded."
fitnur		

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	4-5, 11-12, 20-21, 25-26, 28		YES		
•	Claims	1-3, 6-10, 13-19, 22-24, 27, 29-30		NO		
Inventive step (IS)	Claims	4-5, 11-12, 20-21, 25		- YES		
	Claims	1-3, 6-10, 13-19, 22-24, 26-30	5.	NO		
Industrial applicability (IA)	Claims	1-30		YES		
	Claims			NO		
				-		

2. Citations and explanations (Rule 70.7)

Document 1: WO, 02/37522, A1 (Toshiba Corporation)

May 10, 2002 (05.10.02)

Document 2: JP, 2000-319588, A (Sony Corporation)

November 21, 2000 (11.21.00)

Document 3: JP, 54-105959, A (Hitachi, Ltd.)

August 20, 1979 (08.20.79)

(All of the above documents were cited in the ISR.)

Claims 1-3, 6-10, 13-19, 22-24, 27 and 29-30

The inventions described in each of the above claims do not appear to involve an inventive step or possess novelty based on document 1.

Document 1 (page 8, line 21 to page 10, line 4) describes an undercoat of a metal back made of SiO₂ and TiO₂ (corresponding to a first treatment layer) and an overcoat (corresponding to a second treatment layer), and these do not particularly differ from the inventions described in each of the above claims.

Claims 26 and 28

The inventions described in each of the above claims do not appear to involve an inventive step based on documents 1-2.

Document 2 describes a step for polymerizing a compound indicated by Si (OR1)_nR2_m (corresponding to alkoxide of Si) by hydrolyzing, and, after coating and drying of a condensed polymer obtained by the step (corresponding to an oligomer), formation of a layer with SiO₂ as primary component by heating.

Further, applying the coating method described in document 2 in order to form the undercoat layer or overcoat layer made of SiO₂ described in document 1 would be an obvious matter to a party skilled in the art.

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national application No.
PCT/JP03/13823

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of Box V.2:

Claims 4-5, 11-12, 20-21 and 25

The inventions described in each of the above claims appear to be novel and involve an inventive step over the documents cited in the ISR.

Regarding claims 4-5, 11-12 and 20-21:

The documents cited in the above ISR do not describe a treatment layer containing SiO_2 , TiO_2 and ZrO_2 ; nor is this obvious to a party skilled in the art.

Regarding claim 25:

The documents cited in the above ISR do not describe a process for forming a first treatment layer having a step for forming a layer with an inorganic oxide as primary component by heating a coating layer comprising a laminated lower coating layer and upper coating later, nor is this obvious to a party skilled in the art.